

L 38611-65
ACCESSION NR: AP5005304

Estimates in the ferromagnetic region near the Curic point have shown that both anomalous effects greatly exceed the corresponding normal effects. In the paragram magnetic region away from the Curic point, the anomalous Nernath effect exceeds the normal effect in weak magnetic fields. Orig. art. bas: 3 figures and 1 formulan.

ASSOCIATION: Fiziko-tekhnicheskiy institut in. A. F. Ioffe AN SSSR, Leningrad (Physicotechnical Institute AN SSSR)

SUBMITTED: 04Jun64 ENCL: 00 SUB CODE: SS

NR REF 80V: 004 OTHER: 000

ABSTRACT: The article deals with a new type of wave that can propagate in a addition in which a temperature gradient exists, a wave the authors investigated sarlier and called thermomagnetic (ZhETF v. 44, 548, 1963 and v. 47, 1806, 1964). If such a wave is made to propagate in the inductance—coil core in which the temperature gradient is perpendicular to the coil axis, then the impedance of the coil can change noticeably, depending on the type of instability (convective or absolute), and it is shown that this phenomenon can be used to observe experimentally the presence of thermomagnetic vaves. The active component of the coil impedance oscillates as a function of the frequency, while the reactive component reverses sign

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ACCESSION NR: AP5006869

under certain conditions. In the presence of a magnetic field parallel to the temperature gradient, the active resistance of the coil becomes negative in the presence of convective instability, and oscillations with frequency that depend on the load resistance can be produced in the circuit. In the region of absolute instability, the resultant oscillations are independent of the load. In that case the oscillation frequencies depend on the magnetic field intensity and on the temperature gradient. In the transition region between the convective and absolute instabilities, both waves may exist simultaneously. Orig. art. has: 1 figure and 31 formulas.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AH 888H, Meningrad (Physicotechnical Institute, AM SSSR)

SUBMETTED: 25Jun64

ENCL: CO

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| AUTHOR: | Gurevich, L. | E.; Korenblit, | I. Ye. | | | 35 | |
| TITLE: field an | Electromagneti d ita excitati | e spectrum of i | erromagnetic | metals in a | strong ele | etric B | |
| SOURCE: 652-655 | Zhurnal ekspe | rimental noy 1 | teoretichesk | oy fiziki, v | . 48, no. 2 | 1965, | |
| | GS: ferromagn 11 effect | etic metal, ele | ectromagnetic | oscillation | , spin wave | e cacilla- | |
| duced in | e ferromagnet | discusses the ic metal in the at a new oscill c field at small | e presence of Lation mode, | e statiomer whose freque | y external ney is stro | outly de- | |
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| field are briefly discussed on the properties of ferrom | . "We thank Ye. I. | Kondorskiy for rig. art. bas: | important in 17 formulas. | comation. |
| ASSOCIATION: None SUBMITTED: 10Aug64 | ENCL: | | B CODE: EW, | V V. |
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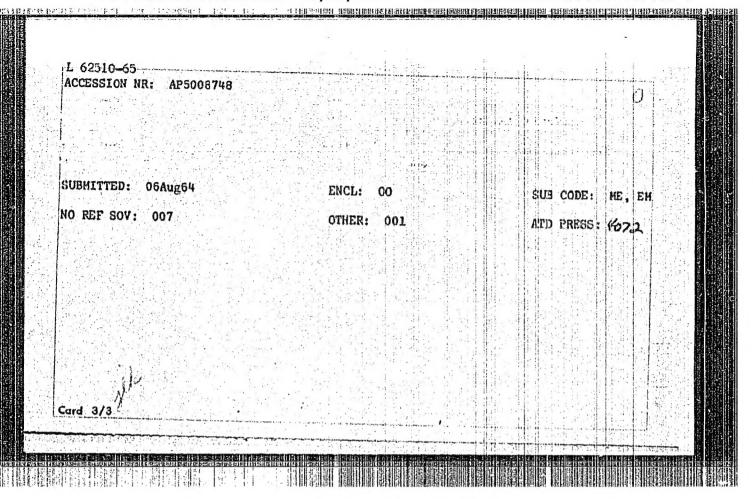
| 62510-65 EWT(1)/EPF(n)-2/EWG(m)/EPA(w)-2 IJ | P(c) At |
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| CESSION NR: AP5008748 | 5/0056/65/049/03/0890/0900 43 |
| THOR: Guravich, L. E.; Vladimirov, V. I. | |
| TLE: Behavior of a plasma with high radiation peld | ressure in a strong electric |
| URCE: Zhurnal eksperimental'noy i teoretichesko | жу fiziki, v. 48, по. 3, 1955, |
| PIC TAGS: plasma physics, thermal stability, el asma heating | ectric field, acquistic field, |
| STRACT: Electric heating of a totally ionized plon that photon heat is greater than the electron oduces a steady state in the system. The part ploud is studied by introducing the characteristic was found that Compton scattering processes are | ayed by radiation thermal conductivity |

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L 62510-65 ACCESSION NR: AP5008748 Boltzmann distribution $N_q = Ae^{-1}$ cq/T. The behavior of a plasma with high radiation pressure in a strong electric field is considerably different in weak and strong magnetic fields. In the first case, there is a certain critical electron heat which is nearly independent of the rate of plasma heat loss. The steady state ceases above this point and unlimited heating of the plasma takes place (at least in a linear approximation). This transition phenomenon and non-steady state is called thermal instability. There is an analytic relationship between the electric field and the electron temperature close to the threshold of this instability. Thermal instability begins at an electron drift rate which may be many times greater than the speed of sound, depending on the parameters of the system. Therefore, acoustic instability is possible in this type of plasma. Thus it differs from a plasma with low radiation pressure where thermal instability begins at a lower drift rate. Since thermal instability does not exist in a strong magnetic field, the heat balance equation may have steady-state solutions for any number of strong electric fields and acoustic instability may also occur. The relationship between the electrical conductivity of the plasma and the magnetic field leads to a third type of instability in a strong magnetic field. This type of instability is associated with decreasing current-voltage characteristics. Orig. art. has: 24 formulas. ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii neuk SSSR (Physicotechnical Institute, Academy of Sciences, SSSR)

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L 21235-66 EWT(1)/EEC(k)-2 IJP(c) AT

ACC NR: AP6003818

SOURCE CODE: UR/0181/66/008/001/0284/0286

AUTHOR: Gurevich, L. E.; Ioffe, I. V.

ORG: Physicotechnical Institute im. A. F. Ioffe AN SSSR, Leningrad (Fiziko-

tekhnicheskiy institut AN SSSR)

TITLE: Current oscillations under acoustic stability

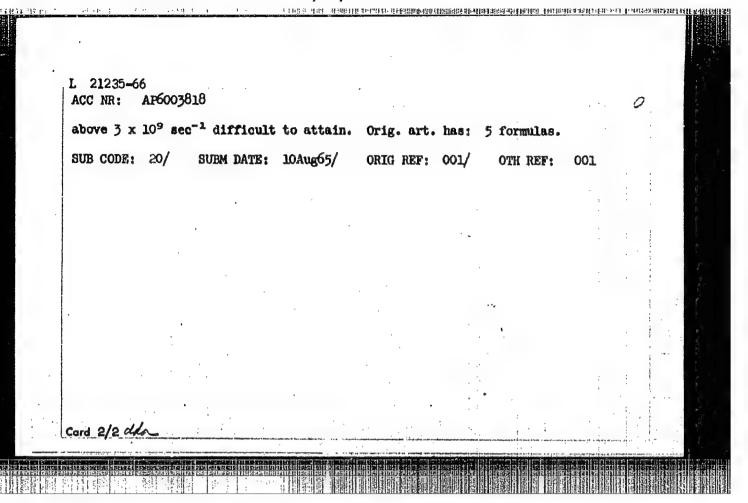
SOURCE: Fizika tverdogo tela, v. 8, no. 1, 1966, 284-286

TOPIC TAGS: acoustic property, piezoelectric crystal, crystal oscillation, semiconductor carrier, semiconductor crystal, cadmium sulfide

ABSTRACT: Although the condition for acoustic instability in piezoelectric semiconductors in the external electric field has already been determined, the associated current oscillations in an external circuit were never investigated before. It is shown in the present paper that a piezoelectric semiconductor can serve as a generator of current oscillations. The expression for the current is derived from the linearized equations for the displacements of the lattice, the electric field, and the carrier density. The frequency of the oscillations is determined. In the case of CdS with $n \simeq 10^{16}$ cm⁻³ and $T \simeq 4 \times 10^{-14}$ erg the frequency is found to be 1.5 x 10^{-11} sec⁻¹. The temperature rise of the crystal is negligible. Multiple reflections and other considerations make the generation of frequencies

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EVT(1)/EPF(n)-2/T/EWA(1) IJP(c) WY r. 23152-66 SOURCE CODE: UR/0181/66/008/002/0525/0531 ACC NR: AP6006841 AUTHOR: Gurevich, L. E.; Roman, G. A. ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fiziko-tekhnicheskiy institut AN SSSR); Chuvash State Pedagogical Institute im. I. Ya. Yakolev, Cheboksary (Chuvashskiy gosudarstvennyy pedagogicheskiy institut) TITLE: Thermal conductivity of ferrites at low temperatures and the effect of phonon and magnon drag 21, 411, 4200 SOURCE: Fizika tverdogo tela, v. 8, no. 2, 1966, 525-531 TOPIC TAGS: ferrite, heat conductivity, low temperature effect, phonon, crystal theory, phonon scattering ABSTRACT: The authors consider magnon and phonon drug where momentum losses are due to scattering of phonons and magnons by defects. If the magnons and phonons reach an equilibrium state under conditions of fast "internal relaxation" of both subsystems in a shorter time than it takes to transmit momentum to the defects, then mutual or bilateral drag takes place. On the other hand, if one of the subsys Card 1/2

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sounce code: Un/0101/66/008/010/2087/2891

AUTHOR: Gurevich, L. E.; Ioffe, I. V.; Kovnatskiy, A. M.

ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fiziko-tekhnicheskiy institut AN SSSR)

TITLE: Excitation of oscillations in semiconductors at strong inhomogeneity of the current density

SOURCE: Fizika tverdogo tela, v. 8, no. 10, 1966, 2887-2891

TOPIC TAGS: semiconductor carrier, minority carrier, semiconductor theory, solid state plasma, plasma oscillation, content atability after

ABSTRACT: This is an extension of earlier work by the authors (FTT v. 8, 1234, 1966 and earlier) dealing with current instability in semiconductors, to include cases when the wavelength of the oscillations in the semiconductor is not much smaller than the inhomogeneity causing the instability. This makes it necessary to construct a linear theory for the self excitation of the oscillations in the semiconductor for the case theory for the semiclassical approach used in the earlier papers is no longer valid. Conwhen the semiclassical approach used in the earlier papers is no longer valid. Conwhen the semiclassical approach used in the earlier papers is no longer valid. Conwhen the semiclassical approach used in the earlier papers is no longer valid. Conwhen the semiclassical approach used in the earlier papers is no longer valid. Conwhen the semiclassical approach used in the earlier papers is no longer valid. Conwhen the semiclassical approach used in the earlier papers is no longer valid. Conwhen the semiclassical approach used in the earlier papers is no longer valid. Conwhen the semiclassical approach used in the earlier papers is no longer valid. Conwhen the semiclassical approach used in the earlier papers is no longer valid. Conwhen the semiclassical approach used in the earlier papers is no longer valid. Conwhen the semiclassical approach used in the earlier papers is no longer valid. Conwhen the inhomogeneity ditions are derived for the occurrence of growing oscillations when the inhomogeneity ditions are derived for the occurrence of growing oscillations when the inhomogeneity ditions are derived for the occurrence of growing oscillations when the inhomogeneity ditions are derived for the occurrence of growing oscillations when the inhomogeneity ditions are derived for the occurrence of growing oscillations when the inhomogeneity ditions are derived for the occurrence of growing oscillations when the inhomogeneity ditions are derived for the occurrence of growing oscillations when the inhomogeneity ditio

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accurate to permit comparison with experiment, it does explain why current oscillations occur only when the cross section changes along the length of the sample and minority carriers are injected (the "sogicons" observed by M. Kikuchi and Y. ABe, J. Phys. Soc. Japan 17, 861 and 1268, 1962), and do not occur in a semiconductor with only one type of carrier (electron or hole). The reason why a magnetic field parallel or transverse to the current can suppress the oscillations is also explained. Orig. art. has:

SUB CODE: 20/ SUBM DATE: 07Feb66/ ORIG REF: 001/ OTH REF: 005

Card 2/2

ACC NR. ARGO33569

SOURCE CODE: UR/0181/66/008/010/3050/3050

AUTHOR: Gurevich, L. E.; Shklovskiy, B. I.

ORG: Physicotechnical Institute im. A. F. Loffe, AN SSSR, Leningrad (Fiziko-tekhnicheskiy institut AN SSSR)

TITLE: Contribution to the theory of second sound in semiconductors

SOURCE: Fizika tverdogo tela, v. 8, no. 10, 1966, 3050-3055

TOPIC TAGS: semiconductor theory, semiconductor carrier, carrier density, crystal defect, phonon scattering, sound wave, semiconductor thereone, phenon

ABSTRACT: The authors consider second sound produced in semiconductors not by all the phonons, as in earlier investigations, and not in the presence of an external electric field, but by longitudinal phonons only in the absence of an electric field. It is shown that for second sound to be produced under these conditions it is necessary that the temperature be much lower than the Debye temperature (less than one-tenth of the latter), that the carriers not interact with optical phonons, that the semiconductor be sufficiently pure to minimize scattering of the phonons by defects, and that the electron and hole concentrations must be sufficiently large and close to each other. The frequencies at which second sound is realizable range from 106 to 108 cps. At the

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indicated low temperatures, a high carrier density can be produced by illumination. The dissipation in the phonon-carrier interaction is estimated and it is shown that at high carrier density the second sound is weakly damped. An experiment capable of disclosing the presence of second sound in semiconductors is suggested. Orig. art. has: 1 figure and 9 formulas.

SUB CODE: 20/ SUBM DATE: 25Feb66/ ORIG REF: 002/ OTH REF: 004

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L 45097-66 EWT(1) IJP(c)

ACC NR: AP6024879

SOURCE CODE: UR/0056/66/051/001/0183/0193

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AUTHOR: Gurevich, L. E.; Gel'mont, B. L.

ORG: Physicotechnical Institute im. A. F. Ioffe, Academy of Sciences, SSSR (Fiziko-tekhnicheskiy institut Akademii nauk SSSR)

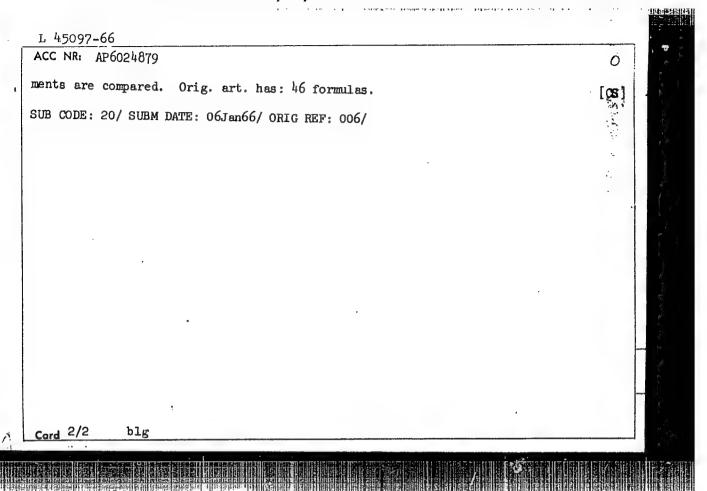
TITLE: Nonlinear theory of thermomagnetic waves

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 51, no. 1, 1966, 183-193

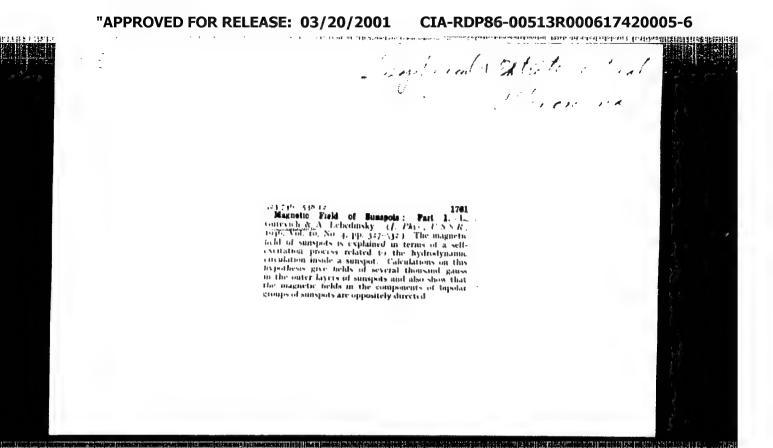
TOPIC TAGS: noncollisional plasma, plasma instability, semimetal, thermomagnetic wave, NONLINEAR THEORY, TRAVELING WAVE, STANDING WAVE.

ABSTRACT: The nature of thermomagnetic waves and their amplification in the presence of instability are qualitatively described. Two possible experiments in which the waves may be detected are considered. In one of them the thermomagnetic waves are traveling waves and in the other, standing waves. An exact solution of the nonlinear equation for the stationary state is given for the first case. The conditions for realization of the first case are investigated and are found to be identical with the condition for the soft excitation regime. The kinetics of the development of instability, conditions for soft and hard excitation, and the stationary state for a small excess of the temperature gradient with respect to its critical value are investigated for the second case. The conditions for feasibility of the two experi-

Card 1/2



PA hT71 CHREST M, L. E. 1945 USSR/Sunspots Magnetism, solar "The Magnetic Field in Sunspots," L. E. Gurevich, A. I. Lebedinsky, 3 pp "CR Acad Sci" Vol XLIX, No 2 Theory of sunspot magnetic phenomenon, which assumes that gas in sunspots flows in to the axis of symmetry of the spot in some regions, and away from it in others, which circulation of a conductive gas leads to the formation of a strong magnetic field by self-excitation from an initially weak field, i.e., the general magnetic field of the sun. 4771



GUREVICH, L. E.; LEBEDINSKIY, A. I.

"Theory of Outburst of Novae"

Jour. Exp & Theoret. Physics, Vol 17, No. 9, 1947 - pp 792-806

GURRAITH, L. T.

PA STEO

USSR/Nuclear Physics
Stellar perturbations

Apr 1947

Explosions in Stars, Resulting from Nuclear Reactions, as a Possible Cause for the Outbursts of Novae and Supernovae, L. Z. Gurevich, A. I. Lebedinsky, 3 pp

"CR Acad Sci" Vol LVI, No 1

An attempt to explain the outbursts of stars like U Geminorum in terms of thermal explosions brought on by nuclear reactions, as against the hypothesis of gravitational collapse.

8180

GUREVICH, L. E.

PA 11780

USSR/Stellar Perturbations Nuclear theory

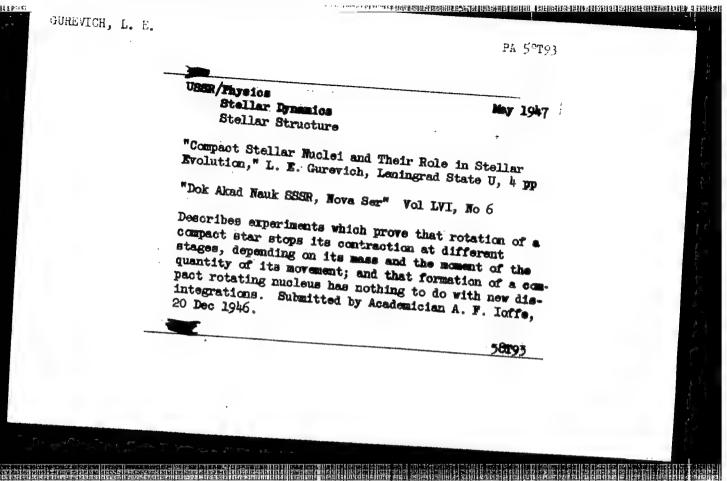
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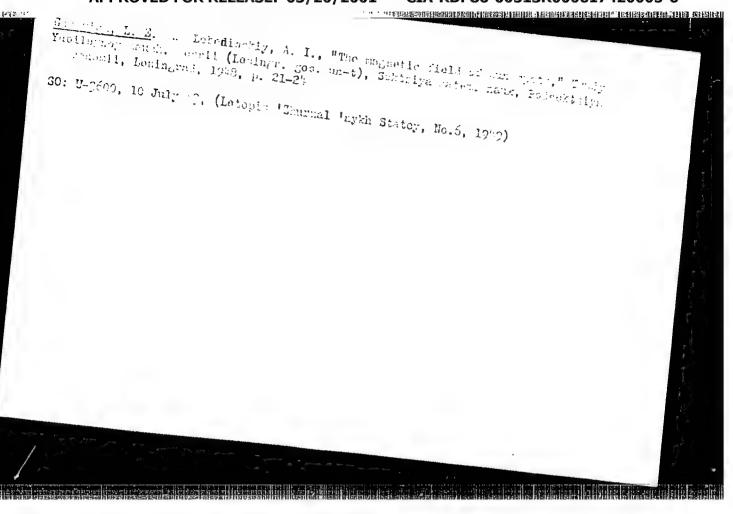
"Peripheral Explosions in Stars as a Result of Nuclear Reactions," L. E. Gurevich, A. I. Lebedinskiy, 4 pp

"CR Acad Sci" Vol IVI, No 2

Nowie and supernovae previously explained on the basis of nuclear reactions. Article gives the conditions necessary for peripheral explosions to occur. Differential and integral equations describing conditions given. Fifteen nuclear reactions (H $\frac{1}{1}+\frac{1}{12}=\frac{1}{2}$ He2 $\frac{1}{3}$, etc.) are given.

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GUREVICH , L.E.

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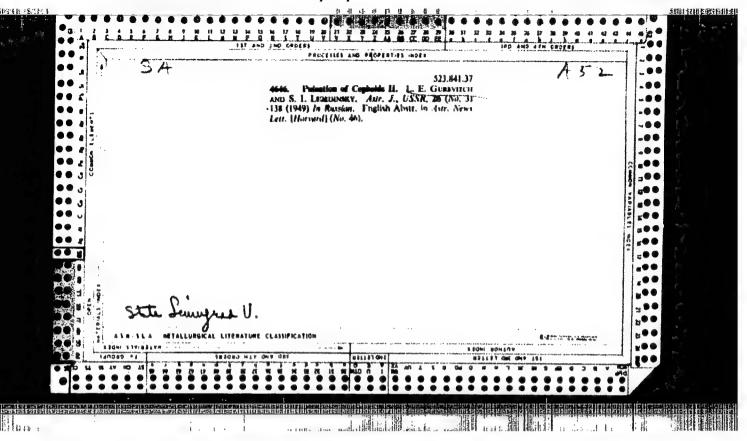
Gurevich i Lebedinsky, A.I.

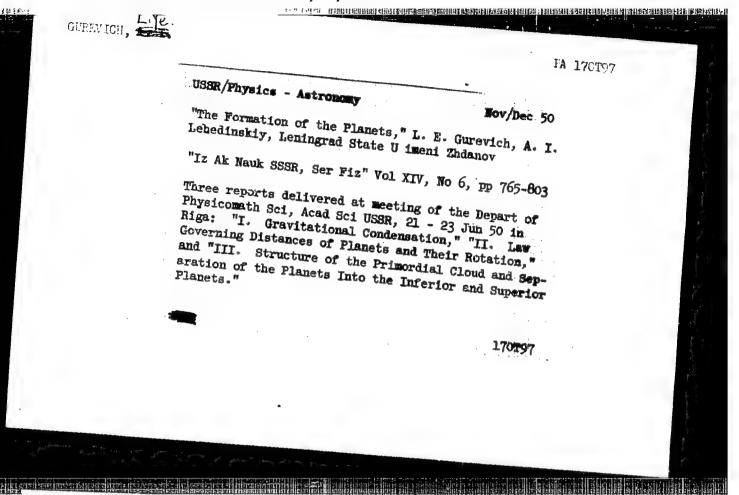
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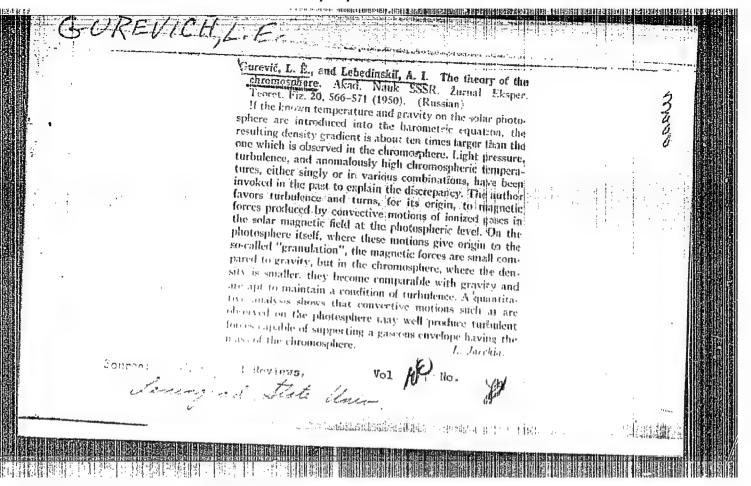
SO: Letopis' Zhurnal'nykh Statey, Vol. 46, Moskva, 1949.

: This or Just - Halli Mitchiel stood wilder and service and PA 42/49T4 GUREVICH, L. E. Mar/Apr 49 USSR/Astronomy Stars Stellar Phenomena "The Pulsations of Cepheids, I," L. E. Gurevich, A. I. Lebedinskiy, Leningrad State U, 7 pp "Astron Zhur" Vol XXVI, No 2 First of two articles gives a brief introduction to cepheids, also known as pulsating stars. Lists people who have studied this phenomenon. Part II will present mathematical proofs of some of the statements made in Part I. 42/49T4

> CIA-RDP86-00513R000617420005-6" APPROVED FOR RELEASE: 03/20/2001







GUNGVICH-B. 168T1 USSR/Astronomy - Binary Stars "Formation of Binary Stars," L. E. Gurevich; B. Yu. Levin, Geophys Inst, Acad Sci USSR, Leningrad State U imeni Zhdanov "Astron Zhur" Vol XXVII, No 5, pp 273-284 Discusses: kinetics governing establishment of statistical equilibrium of binaries; stellar pairs in rotating clusters. Affirms generation of stars in stellar associations. 1681

GUREVICH, L. E.

USSR/ Astronomy - Binary Stars Stellar Phenomena

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"Concerning the Formation of Binary Stars," L. E. Gurevich, B. Yu. Levin, Geophys Inst, Acad Sci USSR, Leningrad State U imeni A. A. Zhdanov, 4 pp

"Dok Ak Nauk SSSR" Vol LXX, No 3

Strict mathematical derivation of hypothesis which effectively synthesizes two seemingly opposite hypotheses: V. A. Ambartsymyan's general derivation of of stellar components and O. Yu. Shmidt's formation of twins by captures. Authors consider that components first form in one association and leter unite in pairs by means of gravitational captures within this association. If the second process, formation of twins or pairs, occurs at early stage when the first, formation of stars, is not yet finished, friction may be very important in kinetics of captures. Submitted by Acad P. I. Lukirskiy 21 Sep 49

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GUREVICH, L. F.: 110 March 1 M

UBSR Astronomy - Itellar Systems Evolution

11 Feb 50

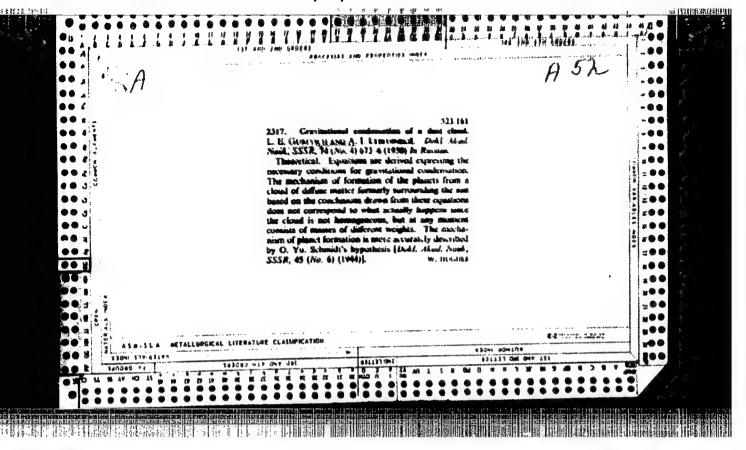
"Evolution of Systems of Gravitating Bodies," L. E. Gurevich, B. Yu. Levin, Geophys Inst, Acad Sci "SSR, Leningrad State U imeni A. A. Zhdanov

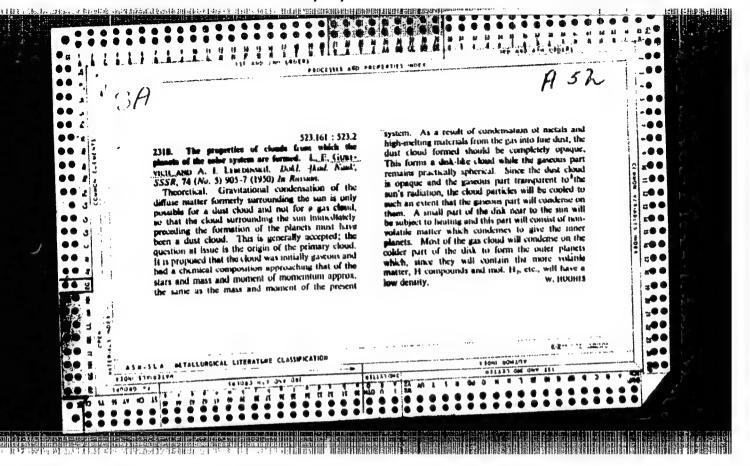
"Dok Ak Nauk SSSR" Vol LXX, No 5, pp 781-784

Mathematically develops ideas on which V. A. Ambartsumyan's theory of star clusters was based. Proves incorrect the usual notion of evolution of gravitational systems, namely star clusters. In particular, according to this notion only scattering would occur. Actually, processes of scattering of gravitational systems during their evolution are continuously connected with their consolidation. Submitted 16 Dec 49 by Acad O. Yu. Shmidt.

PA 165T1

| is carried on for various conditions upon N, R, r, m, v, etc., also free path and collisions. Submitted 30 Dec 49 by Acad 0. Yu. Shmidt | Average energy of "evaporating particle" is much less than T. Therefore, system must be enclosed by dispersed "cloud of evaporated particles." This concept | $\frac{R}{r} >> \frac{R}{4 (\log \frac{1}{2}R)^{\frac{3}{2}}}$ | where G is gravitation constant, n the number of particles per unit volume, r the radius of the particle, R the radius of system. Since \frac{\frac{1}{2}mv^2}{2} = \frac{3}{2}T, Since \frac{1}{2}mv^2 = \frac{1}{2}mt^2 = \frac{3}{2}T, Specifically the number of particles, and it is one of the particles. | USSR/Astronomy - Cosmogony (Contd 1) 21 Feb 50 | $(\frac{hGm}{\sqrt{2}})^{\frac{2}{2}\log\frac{\sqrt{2}R}{Gm}}>>\pi^{\frac{2}{2}}$ | For small density of gravitating system, "gravita- " tional effective cross section of gr is-much greater than "geometric" cross section of an individual "particle" (stars, meteorites, atoms) of g. Thus: | "Dok Ak Hauk SSSR" Vol. LXX, No 6, pp 981-984 | USSR/Astronomy - Cosmogony 21 Feb 50 "Evolution of Dense Gravitating Systems and the Formation of Celestial Bodies," L. E. Gurevich, Leningrad State U imeni A. A. Zhdanov | |
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USSR/Astronomy - Planets

21 Oct 50

"Law Governing Planets' Distances and Rotation," L. E. Gurevich, A. I. Lebedinskiy, Leningrad State U imeni Zhdanov.

"Dok Ak Nauk SSSR" Vol LXXIV, No 6, pp 1061-1064.

Derives general "Bode" formula for distance of nth planet to the Sun, which involves av eccentricity e:

 $R_n = \frac{1 + e}{1 + 2e} \tilde{R}_{k} (1 + 2e)^n$

Submitted 25 Jul 50 by Acad O. Yu. Shmidt.

17212

GUREVICH, L. E.

USSR/Astronomy - Stellar Evolution

21 Aug 51

"Evolution of Stellar Systems," L. E. Gurevich

"Dok Ak Nauk SSSR" Vol LXXIX, No 6, pp 941-944

Considers A. I. Lebedinskiy's hypothesis that stars were formed in a flat layer of dust or gas as a result of its gravitational condensation (cf. ibid. 79, No 1, 1951). Cf. Alfven, Phys Rev, 75, 1732, 1949 and Babcock, ibid. 74, 489, 1948. Submitted by Acad O. Yu. Shmidt 25 Jun 51.

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GUREVICH, L. E., PROF

UBSR/Astronomy - Stellar Statistics

. Feb 51

"Gravitational Systems and Their Evolutions," Prof.
L. E. Gurevich,

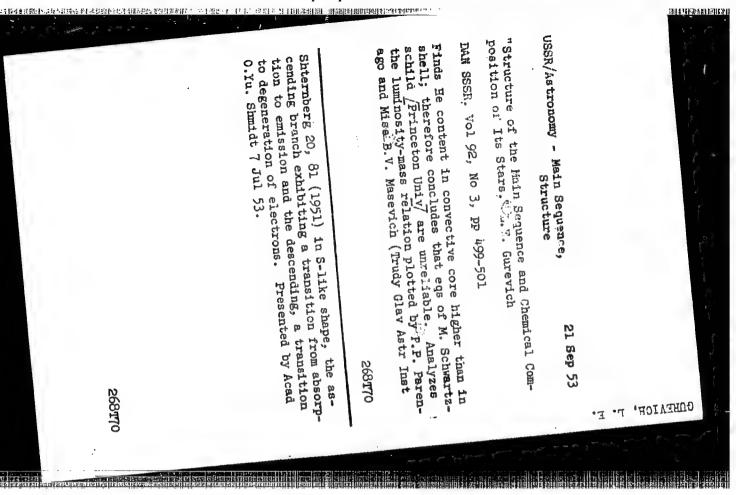
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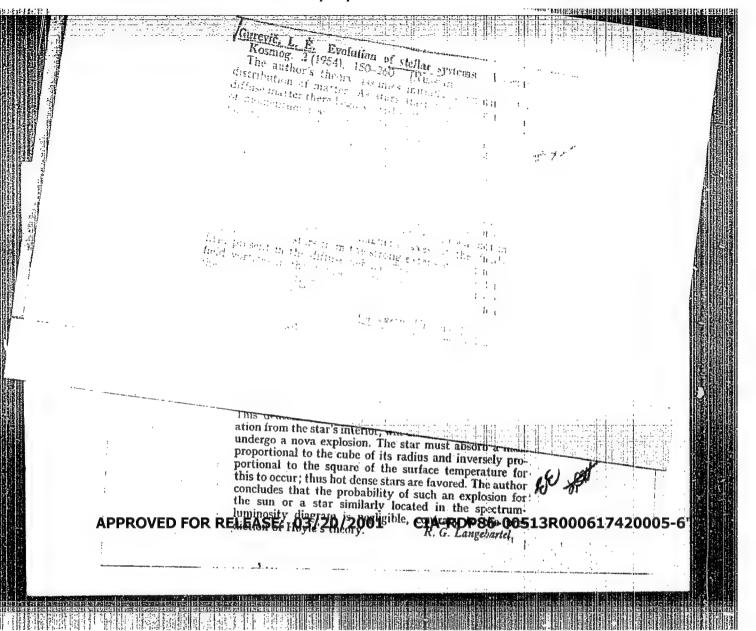
"Priroda" No 2, pp 14-22.

Considers individual stars as particles of a "stellar gas" similar in nature to mol gas in that the interaction of individual particles is negligible in comparison with their kinetic energy. Discusses stellar statistics as created by V. A. Ambartsumyan, and further developed by S. Chandrasekahr.

21372

| GUREVICH, L. E. | USSR/Astronomy - Cosmogony "The Forming of Sturs at the Present Time," L. E. Gurevich, A. I. Lebedinskiy, Leningrad State Pedagogical Inst imeni A. I. Gertsen "Dok Ak Mauk SSSR" Vol IXXXIII, No 6, pp 813-816 State that star forming cannot be an act that occurs once but rather represents a multiple prolonged repeating process which is connected with the evolution of the Galaxy. The authors' theory of star formation in the process of gravitational condensation leads to the conclusion that stars that are forming must rotate with a speed close to limit of centrifugal stability and the conversion limit of centrifugal stability and the conversion of a forming star into a normal slowly rotating star requires the loss of mass. Submitted by Acad O. Yu. Shmidt 5 Mar 52. |
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GUREVICH, L.E.; LEHEDINSKIY, A. I.

On the causes of stellar flares. Dokl. AN SSSR 103 no.4:569-572 Ag'55.

(Stars, New)

(MLRA 8:11)

GUREVICH, L.E.; YASSIYEVICH, T.N.

Anomalous Hall effects and Nermist effects in metals with paramagnetic impurities. Fiz. tver. tela 7 no.2:582-590 F 165.

(MTRA 18:8)

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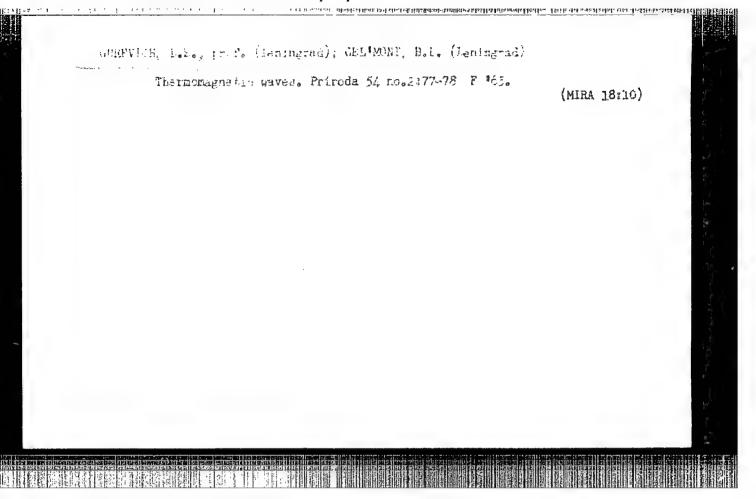
1. Fiziko-tekhnicheskly institut imeni Ioffe AN StrR, Leningrad.

Gusting on the Disko, v.i.

Pehavior of a planka with high reliation pressure in a strong sanction field. Zhur, eksp. i teor. Fiz. 48 no.5:890-900 Mr '65.

(MIRA 18:6)

1. Fiziko-tekhnicheskiy institut imeni loffe AN SSSR.



L 33014-66 EWT(1)/EWP(m)/T-2 LJP(c)
ACC NR: AP6015084

SOURCE CODE: UR/0020/66/168/001/0065/0067

AUTHOR: Gurevich, L. E.; Ioffe, V. I.

61

ORG: None

3

TITLE: Instability of nonuniform current and field distribution

SOURCE: AN SSSR. Doklady, v. 168, no. 1, 1966, 65-67

TOPIC TAGS: MHD instability, electric field, external magnetic field

ABSTRACT: It is shown that magnetohydrodynamic instability may be produced not only by a gradient in the concentration of current carriers, but also by a mobility gradient or instability in the external electric and magnetic fields. Gradient instability in semiconductors is considered. This type of instability (in an electric field at a frequency much lower than the collision frequency) requires conditions opposite to those necessary for "drift" instability: a temperature gradient or pronounced nonisothermicity in the plasma, a strong external magnetic field with no electric field and a low collision index. It is assumed that the nonhomogeneities are of such a nature that the Wentzel-Kramers-Brillouin approximation may be used. Expressions are given for longitudinal and transverse instability with respect to current. Calculations show that instability of this type is possible only in materials with a low carrier concen-

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UDC: 537.311

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L 41722-66 EWT(1 +3P(c) =

SOURCE CODE: UR/0181/66/008/006/1661/1669

AUTHOR: Gurevich, L. E.; Ioffe, I. V.

ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fizikotekhnicheskiy institut AN SSSR)

TITLE: On the instability of nonequilibrium current or field distribution

SOURCE: Fizika tverdogo tela, v. 8, no. 6, 1966, 1661-1669

TOPIC TAGS: semiconductor plasma, plasma instability, plasma magnetic field, electron distribution, carrier density, free path, crystal anisotropy

ABSTRACT: This is a continuation of earlier work by the authors (FTT v. 6, 2226, 1964 and earlier) dealing with the instability of a plasma situated in a magnetic field which is parallel to the electric field in the presence of a carrier-density gradient. It is shown in the present article that the gradient instability occurs not only in the presence of a gradient in the density of the carriers themselves, but also in the presence of any spatial inhomogeneity of any parameter characterizing the conducting medium (such as mobility), or the distribution of the current or the electric and magnetic fields. If the density of the carriers of both polarities is unequal, or in the case of anisotropic semiconductors, the presence of a magnetic field is still essential, but in the case of instability in the semiconductors with carriers of the same sign, gradient instability can arise in the presence of an electric field only when the collision frequency exceeds the frequency of the instability process. A

Card 1/2

L 41722-66

ACC NR: AP6018523

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general criterion for the occurrence of gradient instability is derived for several particular cases in which the external fields or the mean free paths are inhomogeneous. Particular cases considered are the frequency and increment of galvanomagnetic waves in intrinsic as well as impurity semiconductors, instability in inhomogeneous and alternating electric or magnetic fields and for inhomogeneous mean free paths. and current instability in anisotropic crystals. Orig. art. has: 8 formulas.

SUB CODE: 20/ SUBM DATE: 10Aug65/ ORIG REF: 017/ OTH REF: 005

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ACC NR: AP6036968

(A,N)

SOURCE CODE: UR/0181/66/008/011/3260/3268

AUTHOR: Gurevich, L. E.; Ipatova, I. P.; Klochikhin, A. A.

ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fiziko-tekhni-cheskiy institut AN SSSR)

TITLE: Raman scattering of light in cubic ionic crystals with impurities

SOURCE: Fizika tverdogo tela, v. 8, no. 11, 1966, 3260-3268

TOPIC TAGS: Raman scattering, ionic crystal

tion of one phonon in NaCl-type crystals in the presence of defects giving rise to a Coulomb potential. The scattering cross section is determined by the electron polarizability, different from zero within the radius of action of the Coulomb potential, and by the spectral density of lattice vibrations. Since the radius of action of the impurity is small, the vibrations of the great majority of atoms located at the impurity, and the spectral density can be considered unperturbed. It is shown that in the spectrum of Raman scattering one should expect the appearance of two peaks located in the vicinity of the cutoff frequencies of optical phonons. The information art. has: 38 formulas.

SUB CODE: 20/ SUBM DATE: 18 Apr66/ ORIG REF: 007/ OTH REF: 006

ACC NR: AP7005326

SOURCE CODE: UR/0181/67/C09/001/0075/0078

AUTHOR: Gurevich, L. E.; Rumyantsev, A. A.

ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fizikotekhnicheskiy institut AN SSSR)

TITLE: Theory of the optoelectric effect in organic crystals at high frequencies and in the presence of an external magnetic field

SOURCE: Fizika tverdogo tela, v. 9, no. 1, 1967, 75-78

Card 1/2

UDC: none

ACC NR: AP7005326

impurities. If an external weak magnetic field parallel to the wave of propagation direction is superimposed on the optoelectric field, another constant field is produced, perpendicular to the wave-propagation direction and to the external magnetic field. The relation between the optoelectric effect and the Hall effect is discussed. Orig. art. has: 9 formulas.

SUB CODE: 20/ SUBM DATE: 14May66/ ORIG REF: 001/ OTH REF: 001 ATD PRESS: 5116

Card 2/2

ACC NR: AP7005331

SCURCE CODE: UR/0181/C;/009/001/0106/0115

AUTHOR: Gurevich, L. E.; Gasymov, T. M.

ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fizikotekhnicheskiy institut AN SSSR); Institute of Physics, AN AzerbSSR, Baku (Institut riziki AN AzerbSSR)

TITLE: Heating of phonons in semiconductors in a strong electric field, and its influence on the electric conductivity

SOURCE: Fizika tverdogo tela, v. 9, no. 1, 1967, 106-115

TOPIC TAGS: germanium semiconductor, semiconductor conductivity, phonon interaction, electric field, electron temperature, [LECTRIC (DUDICTIVITY)

ABSTRACT: The authors analyze the influence of phonon heating on the electric conductivity of n-type germanium with electron density ~10¹⁴ cm⁻³. A number of reasons are advanced why the authors believe that the results of V. V. Paranjape (Proc. Phys. Soc. v. 80, 171, 1963) and E. M. Conwell et al. (Phys. Rev. v. 135, A814, 1964) are not valid. It is shown that phonon heating is possible at low temperatures, when the phonon mean free path exceeds the crystal dimension. An important factor here is that the time necessary for the phonon to give up energy on the crystal boundaries is much larger than the quasimomentum transfer time. Cases of not too strong heating of electrons interacting only with long-wave subthermal phonons are considered, and also the case of strong heating of electrons emitting superthermal phonons. In the

Card 1/2

ACC NR: AP7005331

case of the subthermal phonons, the thermal phonons of the lattice provide a thermal reservoir, while in the case of the superthermal phonons there is no thermal reservoir. It is shown that in the latter case the electric conductivity can have a nonmonotonic variation when the field becomes stronger, namely a minimum followed by a maximum.

Orig. art. has: 38 formulas.

SUB CODE: 20/ SUBM DATE: 23May66/ ORIG REF: 004/ OTH REF: 005

Card 2/2

L 23368-55 EMP(e)/EMT(m)/EFF(n)-2/EWA(d)/EFF/EMP(t)/EMP(k)/HWP(t) Ff-//FS-4/Pu-L

IJP(c) MW/JD/JG/AT/WH

ACCESSION NR: AR5000739 S/0277/64/000/009/0020/0020

SOURCE: Ref. zh. Mashinostroitel'nysye materialys, konstruktsii i & raschet detaley mashin. Gidroprivod. Otd. vysp., Abs. 9.48.121

AUTHOR: Smirnov, F. F.; Gurevich, L. F.; Stepanova, T. M.; Levin,

TITLE: Cutting properties of a new experimental verient of alloy VKL with improved strength

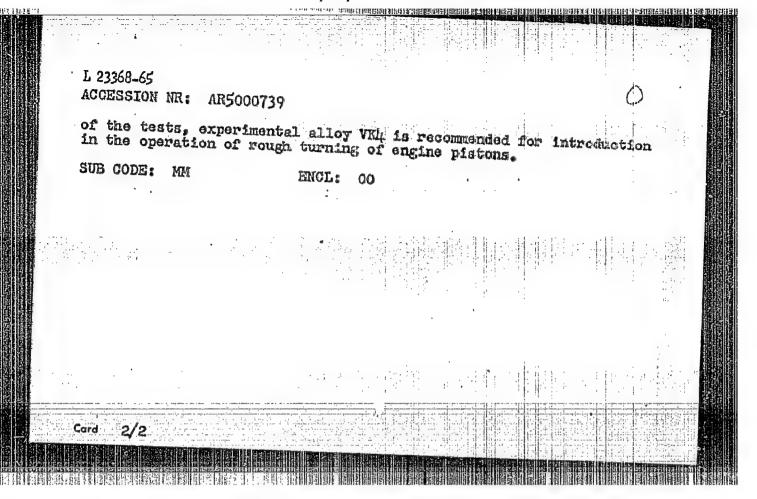
CITED SOURCE: Sb. tr. Vses, n.-i. in-t tverdy*kh splayov, no. 5, 1964, 14-28

TOPIC TAGS: cutting tool, tungsten carbide, carbide tool/ alloy VK4, alloy VK8, 4 27 27

TRANSLATION: Results of laboratory and plant tests of the cutting properties of a new industrial variant of alloy VML, produced as a result of the use of tungsten carbide with a higher carbidizing temperature, are presented. The cutting properties were tested by comparison with standard types of alloys VKL and VK8. On the basis

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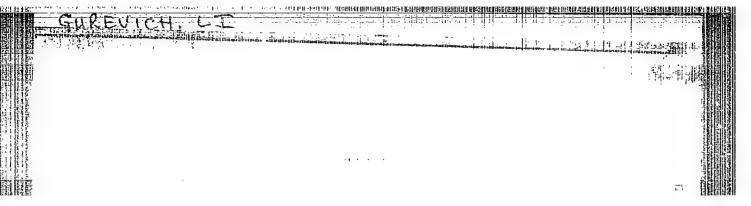
EMP(e)/EMT(m)/EPF(n)-2/EML(d)/EPR/EMP(t)/EMP(L) MJW/JD/HW/JG/AT/WH ACCESSION NR: AR5004790 8/0137/64/000/010/1080/1081 SOURCE: Ref. zh. Metallurgiya, Abs. 101575 AUTHOR: Smirnov, F. F.; Gurevich, L. F.; Stepanova, T. M.; Levin, B. Z. TITLE: Cutting properties of a new experimental variant of alloy VK4 with increased strength CITED SOURCE: Sb. tr. Vses. n.-i. in-t tverdykh splavov, no. 5, 1964, 14-28 TOPIC TAGS: tungsten base alloy, cobalt containing alloy, tungsten carbide, cutting tool, carbidizing/ alloy VK/4 TRANSLATION: Results of laboratory and production tests of the cutting properties of a new industrial variant of alloy VK4, obtained by use of tungsten carbide with an increased carbidizing temperature, are described. Cutting properties were tested by comparison with standard alloys VK1 and VK3. On the basis of test results, experimental alloy VK1 is recommended for introduction in the rough Card 1/2

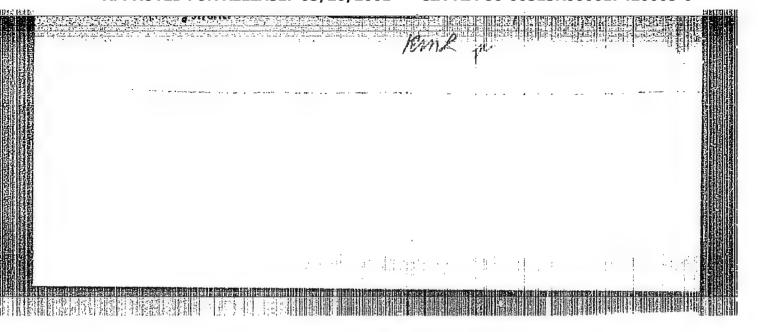
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machining of engine pistons. N. Saznova.
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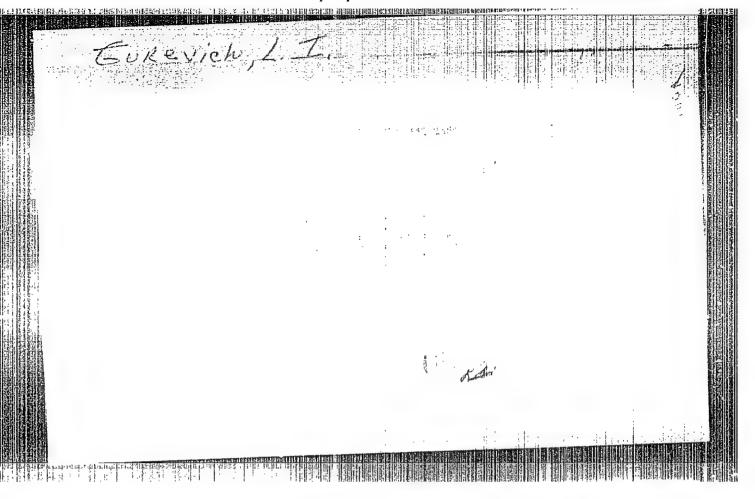
LOBANOV, Ye.M.; NOVIKOV, A.P.; KHAYDAROV, A.A.; GUREVICH, L.G., otv. red.; KISELEVA, V.N., red.; KARABAYEVA, Kh.U., tekhn. red.

[Activation analysis in conditions of geological bore-holes] Aktivatsionnyi analiz v usloviiakh geologicheskikh skvazhin. Tashkent, Izd-vo AN Uzb.SSR, 1963. 66 p.
(MIRA 17:2)

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GUREVICH, L. I.

"The Influence of Different Forms of Pollination on the Progress of Formation during Wheat Sexual Hybridization," Dokl. AN SSSR, 70, No.4, 1950

Central Asia Station, All-Union Inst. of Plants

"The Role of the Quantity of Pollen in the Hybridization of Cotton and Wheat."

Cand Biol Sci, Central Asian State U imeni V. I. Lenin, Min Higher Education USSR, Tash-

kent, 1955. (KL, No 18, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

SUSHKOVA, M.D.; GUREVICH, L.I.

Evaluating the quality of a bituminous oil mixture. Bum.
prom. 35 no.7:9-10 Je '60. (MURA 13:8)

1. TSentral'my nauchno-issledovatel'skiy institut
tsellyulosnoy i bumanhnoy promyshlennosti.

(Paper) (Bituminous materials) (Mineral oils)

S/276/63/000/002/022/052 A052/A126

AUTHORS:

Gol'dis, Z.S., and Gurevich, L.I.

TITLE:

Producing cutting tools by the arc build-up method

PERIODICAL:

Referativnyy zhurnal, Tekhnologiya mashinostroyeniya, no. 2, 1963, 94, abstract 22490 (In collection: "Vnedreniye peredovcy

tekhnol. svarki", no. 1, Irkutsk, 1960, 58-61)

TEXT: The technology is described for producing milling cutters by the method of arc build-up of blanks with grooves (by the number of built-up teeth) milled in them. The process is employed at the Irkutsk heavy machinery plant. The build-up is performed with P-18 (R-18) high-speed steel electrodes 6-8mm in diameter with a coating 1.5-2.5mm thick of the following composition (in %): commercial chalk 54, fluorite 26, ferrochrome 8, ferrosilicon 8, ferromanganese 2, argentographite 2, and water glass 30% (of the sum of dry components) on direct current of reversed polarity. To prevent the swelling and damage of the coating a thorough preliminary passivation of ferrosilicon and ferromanganese is made. The blanks heated to 550-600°C are fixed by the ends in the center of a special turning device

Card 1/2

S/276/63/000/002/022/052

Producing cutting tools...

after which the build-up of teeth of the tool begins, the blank being turned each time by 180°. After build-up of the first layer (0.8-0.7 of the depth of the groove) the seam and the nearby surface are cleaned by means of a pneumatic hammer and a steol brush, and then the blank is heated means of a pose turning. After building-up the second layer the blanks are to 550-600°C by turning. After building-up the second layer the blanks are cooled slowly in the furnace and are then heat treated. The hardness of built-up metal after annealing is within RC = 22-26 (HB = 255-262). As a presult of a reduced-consumption of high-speed steel the plant saved 40,000 result of a reduced-consumption of high-speed steel the plant saved 40,000 rubles a year.

L. Kamionskiy

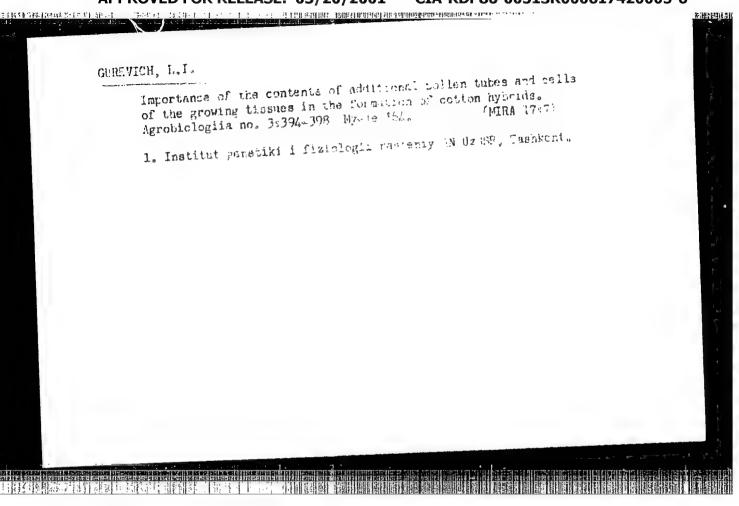
(Abstracter's note: Complete translation.)

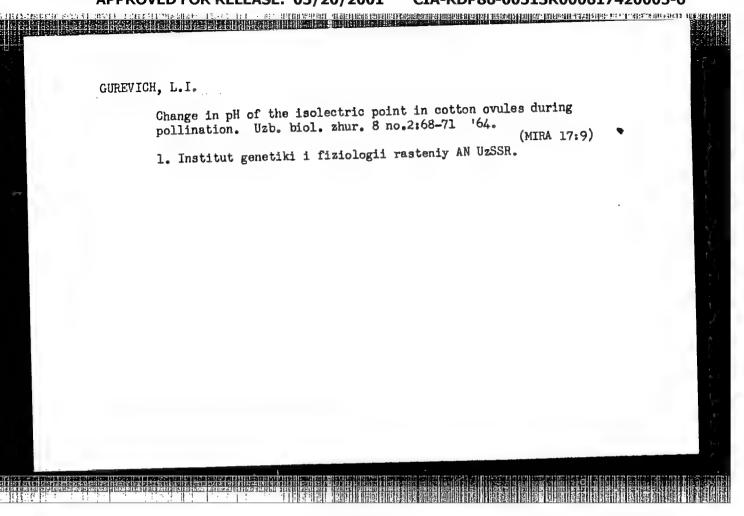
GUREVICH, L.I. Using specimens with variable cross section for determining the strength of brittle materials. Izv.vys.ucheb.zav.; prib. 6 no.3: (MIRA 16:9)

143-148 163.

1. Severo-zapadnyy zaochnyy politekhnicheskiy institut. Rekomendovana kafedroy soprotivleniya materialov.

CIA-RDP86-00513R000617420005-6" APPROVED FOR RELEASE: 03/20/2001





GUREVICH, Lov Il'ich

Of the Question about Innervation of the Spleen

Dissertation for candidate of Medical Science degree, Chair of Histology (head, Fellow-Correspondent "AMN" USSR Prof. N.G. Kolosov) and Diagnostics of Internal Diseases (head, Prof. I.I. Tsvetkov) Saratov Medical Institute, 1950

Garevich, L.I

TSVETKOV, I.I.; GUREVICH, L.I.

Hematopoiesis and peripheral blood in Botkin's disease. Klin. med., Moskva 30 no. 7:91 July 1952. (CIML 22:4)

1. Professor for Tsyetkov and Candidate Medical Sciences for Gurevich. 2.0f the Propedeutic Therapeutic Clinic (Director -- Prof. I. I. Tsyetkov), Saratov Medical Institute.

TSVETKOV, I.I., prof. [decensed], GUREVICH, L.I., kand.med.nnuk (Saratov)

Trentment of erythremia with radioactive phosphorus. Klin.med.
36 no.h:98-99 Ap'58

(MIRA 11:5)

1. Iz kafedry profedevtiki vnutrennykh bolezney (zav. -prof.
I.I. TSvetkov) Saratovskogo meditsinskogo instituta (dir. - dotsent B.A. Nikitin)

(PLICYTHENIA VERA, ther.
radiophsphorus (Rus))

(PHOSPHORUS, radioactive ther. of polycythemia vera (Rus))

BYREYEV, P.A., prof.; VAESHAMOV, L.A., prof.; VOLYNSKIY, B.G., dotsent; GERASIMOV, N.V., dotsent; GUREVICH, L.I., dotsent; ZHELYABOVSKIY, G.M., prof.; KARTASHOV, P.P., prof.; KOCHETOV, K.P., dotsent; KRUGLOV, A.N., prof.; KUTANIN, M.P., prof.; LARINA, V.S., dotsent; LOBKO, I.S., doktor [decessed]; LUKOVA, A.I., prof.; MAKHLIN, Ye.Yu., prof.; NAUMOV, A.I., kand.med.nauk; POPOV'YAN, I.M., prof.; SOLUN, N.S., kand.med.nauk; TARABUKHIN, M.M., dotsent; TRET'YAKOV, K.N., prof.; TRISHINA, A.A., kand.med.nauk; UL'YANOVA, A.V., dotsent; FAYN, A.E., kand.med.nauk; FAKTOROVICH, A.M., dotsent; FRANKFURT, A.I., prof.; FISHER, L.I., dotsent; CHASOVNIKOVA, Ye.P., kand.med.nauk; SHAMARIN, P.I., prof.; SHAPIRO, M.Ya., dotsent; SHVARTS, L.S., prof.; SHUSTERMAN, I.B., dotsent; FOY, A.M., prof.; FREYDMAN, S.L., kand.med.nauk; NIKITIN, B.A., dotsent, red.; AFANAS'YEV, I.A., red.; LUKASHEVICH, V., tekhn.red.

[Concise medical reference book] Kratkii terapevticheskii spravochnik. Izd.3., ispr. i dop. Saratov, Saratovskoe knizhnoe izd-vo, 1959. 919 p. (MIRA 13:7)

1. Chlen-korrespondent AMN SSSR (for Tret'yakov).
(MEDICINE-HANDBOOKS, MANUALS, ETC.)

GUREVICH, L.I., dotsent

Immediate and late results of the treatment of chronic myeloid leukosis with myelosan. Sov. med. 24 no. 10:84-88 0 160.

(MIRA 13:12)

l. Iz propedevticheskoy terapevticheskoy kliniki (zav. - prof. P.I. Shamarin) Saratovskogo meditsinskogo instituta (dir. - dotsent B.A. Nikitin).

(IEUKEMIA) (METHANESULFONIC ACID)

GUREVICH, L.I.; GRANKFURT, L.A.

Hemopolesis after total gastrectomy. Vop. onk. 6 no. 11:26-33 N '60.

(MIRA 14:1)

(STOMACH—SURGERY) (ANEMIA)

DER DESTRUCTION OF THE PROPERTY OF THE STATE OF THE STATE

· GUREVICH, L.I.

Dominance of morphological characters in the cotton plant as related to the conditions of pollination. Uzb. biol. zhur. no.l: 15-20 '61. (MIRA 14:3)

1. Institut genetiki i fiziologii rasteniy AN UzSSR. (COTTON BREEDING)

VOYTIK, V.F., dotsent; GUREVICH, L.I., dotsent

Experience in the use of cholelithin. Kaza Med. Zhur. no.6: 51-53 '62. (MIRA 17:5)

 Propedevticheskaya terapevticheskaya klinika (zav. - prof. P.I. Shamarin) Saratovskogo meditsinskogo instituta.

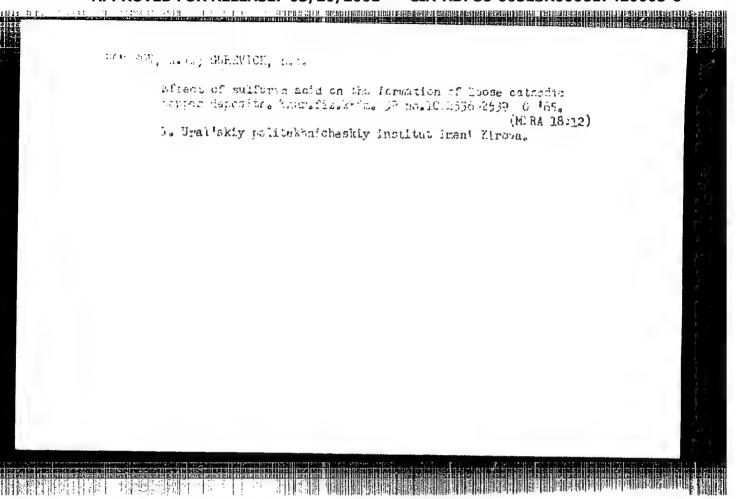
CUREVICH, Lev Isayevich, kand. tekhn. nauk; MATKHAKOV, Vasiliy
Nikolayevich, inzh.; SAVIN, M.G., inzh., retsenzent;
VOL'MAN, L.N., red.

[Masters of the blue flame] Mastera golubogo ognia. Irkutsk, Vostochno-Sibirskoe knizhnoe izd-vo, 1964. 77 p. (MIRA 18:3)

NYURENBERG, M.M., inzh.; GUREVICH, L.I., inzh.

Replacing cast bushing-axles of pouring machine chains by cast
and welded ones. Svar. proizv. no.3:34-35 Mr '64. (MIRA 18:9)

1. Trkutskiy zavod tyazhelogo mashinostroyeniya im. Kuybysheva.



GUREVICH, Larisa Konstantinovna; BIBIKOV, Nikolay Nikolayevich; ZHUKOVA, V.I., inzh., red.; OVIRTS, V.L., tekhn.red.

[Copper plating and zinc plating in a fluosilicic acid electrolyte]
Mednenie i tsinkovanie v kremneftoristovodorodnykh elektrolitakh.
Leningrad, Leningr.dom nauchno-tekhn.propagandy. 1959. 21 p. (Obshehestvo po rasprostraneniiu politicheskikh i nauchnykh znanii
RSFSR. Ser.Zashchitnye pokrytiia metallov. no.5). (MIRA 13:2)
(Copper plating) (Zinc plating) (Electrolytes)

| 25(1) FRAME I BOOK EXPLICITATION SOV/3.551 Muchan-technichesings oblichestry machinestry(cal'soy propertieses), Elyenthype oblichestry pravienty | Matchino-defauntivarys I spateial '1779 pokrytiya setallor (Frotestiva, Baconstiva, and Spacial Contings for Metals) Klywa, Matchin, 1959. 291 p. 4,200 copies printed. A.200 copies printed. Mitorial Bosoft P. E. Lawrito, H. I. Litrak, and A. P. Eychis (Bary, Ed.) Mitorial Bosoft P. E. Lowrito, H. S. Soroka, Glief Ed. (Southern Perison, Company of Matchine Bosoft P. S. Soroka, Glief Ed. (Southern Perison, Company Comp | Ę | OUTSALES: The papers in this collection, presented at a contractor of the TTO Paradyness half in Odessa, dast with the mechanisation and accoderation of serial-conting of patric processes performed by spyin Lie, electrolytic of and other serious. But proceeding contings is also discussed. Be presentable on the papers. Illimoders, T. V. Suggieser (Elawinor). Application of Elgi-luster Hielest Plates in the Accodeding to the papers. | Swellyams, 4. I., Candidate of Chemical Sciences, and G. S. Chemicalterials. Speccol. May Electrolyte for High-lancer Sitch Faring. Noticed Secretary, S., Candidate of Canter Science (Model). Intensification of the High-lance Frances Through the Ge of Finonces Electroly. 19 | Mail Prom. C. S., English: (beacov). Effect of Processing Partors on the Noresty, of Electrolytic Deposits of Sickel. | Ogramows, M. M., Dortor of Chemical Sciences, and A. A. Historyes, Camidate of Chemical Sciences. Michal Flating by Chemical-reduction Bethods | 42 | Parties at Now Departure or arounded to Septicions (Septicions). Chross 75 Endreworks or 15 | (Decon), Bactrodeposttion of Iros at Rich Current Densities from Lov- temporature Shiftente Acid Solutions (Decon), and V. M. Kills, Engineer (This), High-larest Copper Platting | | Malagner, M. A., Candidate of Technical Sciences, and A. I. Lipin, Inginet: (Lymbertay). Electroplating of Alminim Alloys | - | ortting deem | | Einel'stays, M. S Singleses (Wescow). Riscirolytic Polishing of Mercol | white Deposition of the I | emingord). Risetro. | I., Doctor of Technical Sciences (Swardport). Neclaniam of the Chifteen-active Substances in Electropicting | On the Mechanisa of Blactrodeposition of Metals Contained in Malijle and Couplex Saits | of Precision-instru- | |
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"Automatic Tuning of the Terminal Stage Circuit of a High-Frequency Symphrophasotron Oscillator at 10 Billion Electron Volts," G. H. Drabkin, L. M. Gurevich, B. M. Gutner, and N. K. Kaminskiy, Radiotekhnika i Elektronika, No 7, Jul 56, pp 965-973

A system is described for the automatic tuning of the terminal circuit of a high-frequency synchrophasotron track to compensate for the varying frequency of the excitation voltage in the process of acceleration. The tuning of the circuit is produced by magnetizing the ferrite core inductance.

The control signal of the system was found to be proportional to the phase difference between the input and the output voltages of the terminal cascade.

The notion was first introduced in 1952 by Prof I. Kh. Nevyazhskiy, and persons contributing to it at various times were K. N. Bulychev, N. V. Trunova, Yu. M. Lebedev-Krasin, B. M. Murin, and A. I. Prokop'yev. Application of the system to a synchrophasotron was accomplished in the period 1955-1956, and persons affiliated at this stage were V. V. Yekimov, A. I. Prokop'yev, Yu. F. Tsibul'skiy, K. V. Chekhlov, and S. N. Yurov.

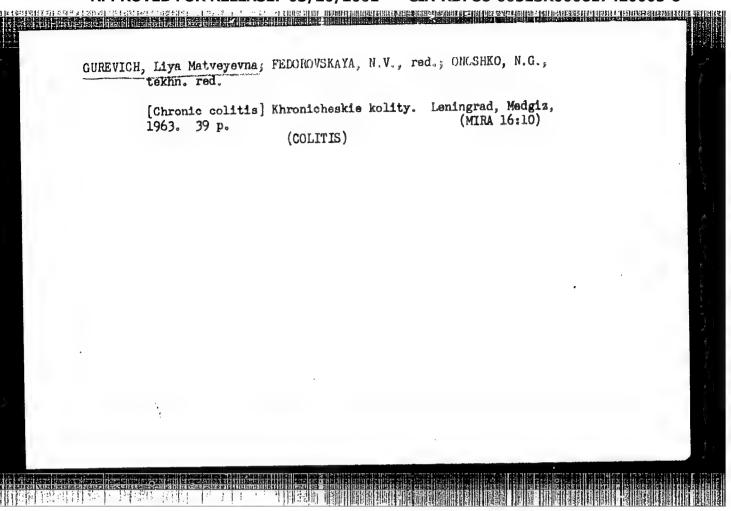
SHLYAKHTENKO, L.I.; SKOVORODNIKOVA, Ye.S.; BUNTE, A.I.; GUREVICH, L.M.; BELOVA, I.V.; SHEINA, N.N.

Detection and dispensary care of dysentery patients for the improvement of sanitary conditions in a large residential area. Trudy LSCMI 32:287-303 '57. (MIRA 12:8)

1. Kafedra epidemiologii (zaw. - prof. V.A.Bashenin), kafedra propedevtiki vnutrennikh bolezney (zaw. - prof. S.M.Ryss), kafedra mikrobiologii (zaw. - prof. M.H.Fisher) i kafedra kommunal'noy gigiyeny (zaw. - prof. P.K.Ageyev) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

(DYSENTERY, BACILLARY, prev. & control detection & dispensary serv. (Rus))

(OUTPATIENT SERVICES for dysentery (Rus))



"APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000617420005-6

SOURCE CODE: UR/Oh13/66/000/007/0106/0106

AUTHOR: Gurevich, L. M.

33.

ORG: none

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TITLE: Rotary reversible pump (hydraulic engine). Class 59, No. 180489

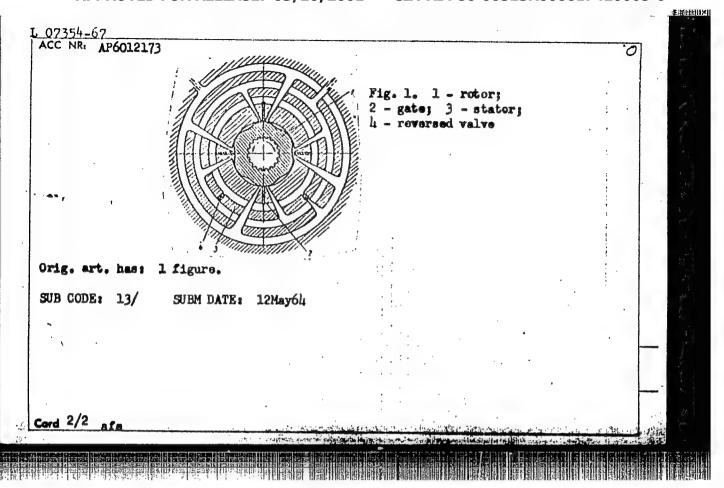
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966, 106

TOPIC TAGS: pump, hydraulic pump, rotational flow

ABSTRACT: This Author Certificate presents a rotary reversible pump (hydraulic engine) with an irregularly curved rotor and gates distributed in the openings of the stator, and with two hollow zones in the stator. Each of these hollow zones represents either a pressure or a suction (overflow) opening, depending on the direction of rotor revolution. To diminish the wear at the gates and the rotor, the pump (hydraulic engine) is provided with reversed valves with an adjustable or a fixed backwater flow (see Fig. 1). These valves connect the opening above the gates to the suction (overflow) opening at any direction of the rotor rotation. The working liquid enters the opening above the gates only through the slits in the gate openings.

Card 1/2

UDG: 621,662.2



L 18607-65 ACCESSION NR: AR3004146

\$/0272/63/000/006/0098/0098

6.4 (1952.) 16 (19

SOURCE: RZh. Metrologiya i izmer. tekhn. Otd. vy*p., Abs. 6.32.791

AUTHOR: Gurevich, L. M.

TITLE: A technique for narrowing and expanding the range of variation of the electromagnetic oscillations phase

CITED SOURCE: Tr. N.-i. in-ta teploenerg, priborostr., sb. 4, 1961, 3-22

TOPIC TAGS: fluid level gage, automatic content gage, level control phase technique, electromagnetic oscillation phase variation, phase variation range adjustment, level gage calibration.

TRANSLATION: A brief description is provided of the basic principles of a phase technique for automatically controlling the level of liquids. A simple procedure is proposed for narrowing and expanding the range of transposition of the current

Card 1/2

L 18607-65 ACCESSION NR: AR3004146 distribution curve along the gage line by producing a supplemental wave whose phase is not dependent on the level of measured liquid. This can be accomplished by a short-circuit loop connected near the gage line, by a disparity in wave impedance of the gage line and the connecting cable, or by means of both modifications simultaneously. The calculation procedure for such circuits is simple and accurate. Calibration of the level gage becomes simplified, since the compression (expansion) factor depends only on one element. The error dictated by non-linearity of the phase curve does not exceed error levels obtained with a transition quadripole circuit. Calculation and experimental results based on the cited technique indicated good coincidence and confirmed its simplicity. Bibl. with 2 titles; 5 illustrations. M. Mekler SUB CODE: EH ENCL: 00

I. 20706-65 ASD(a)-5/SSD/AFMDC/AFETR/AFTC(p)/RAEM(a)/RAEM(d)/ESD(dp)

ACCESSION NR: AR3010285 \$/0081/63/000/012/0387/0387

SOURCE: RZh. Khimiya, Abs. 121131

AUTHOR: Gurevich, L. M.

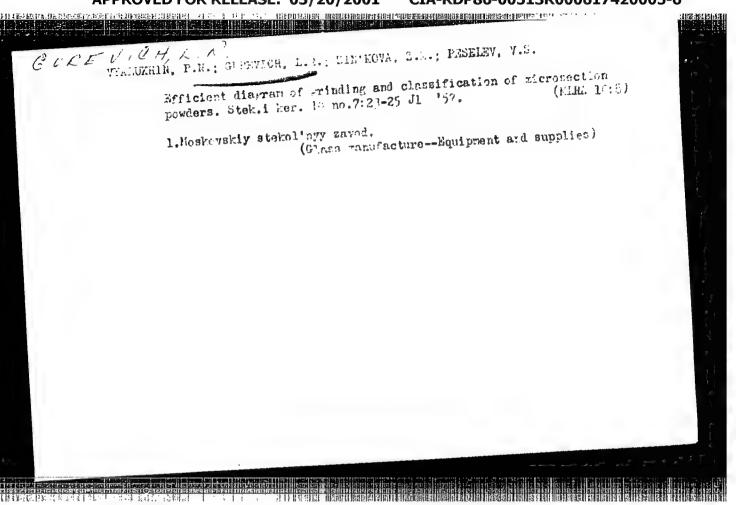
TITLE: A method for decreasing the error during the automatic control of fluid level by the radio-interference method

CITED SOURCE: Tr. N.-i, in-ta teploenerg, priborostr., Sb. 1, 1962, 32-37

TOPIC TAGS: automatic control system, fluid level control, measuring device, error correction, radio interference method, cable length, air temperature, phase expander

TRANSLATION: A method is described for decreasing the effect of changes in the electric length of the connecting cable (due mainly to changes in the temperature of the surrounding air); in this method, a reactive element, which increases the range of phase changes in the wave reflected from the surface of the liquid being measured by several fold, is attached to the cable near the sensor. Near the measuring line, another reactive element is inserted which contracts the range of phase changes in this wave by the same number of times, thus bringing the range of phase changes of the reflected wave back within the initial limits in effect and 1/2

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| ACCESSION NR: AR3010285 | |
| before incorporation of t incorporated elements for Lyudmirskiy | the range-widening element. The work of the successively r compressing and widening the range is analyzed. H. |
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BEREZHNOY, A.I.; BRODSKTY, Yu.A.; BRONSHTEYN, Z.I.; VEYNEERG, K.L.;

GALDINA, N.M.; GLETMAN, B.A.; GINZBURG, D.B.; GUTOP, V.G.;

GUREVICH, L.R.; DAUVAL'TER, A.N.; YEGOROVA, L.S.; KOTLYAR,

A.Ye.; KUZYAK, V.A.; MAKAROV, A.V.; POLLYAK, V.V.; POFOVA,

E.M.; PRYANISHNIKOV, V.P.; SENTYURIN, G.G.; SIL'VESTROVICH,

S.I., kand. tekhn. nauk, dots.; SOLOMIN, N.V.; TEMKIN, B.S.;

TYKACHINSKIY, I.D.; SHIGAYEVA, V.F.; SHLAIN, I.B.; EL'KIND,

G.A.[deceased]; KITAYGORODSKIY, I.I., zasl. deyatel' nauki i

tekhniki RSFSR, doktor tekhn. nauk, prof., red.; GOMOZOVA,

N.A., red.izd-va; KOMAROVSKAYA, L.A., tekhn. red.

[Handbook on glass manufacture] Spravochnik po proizvodstvu stekla. [By] A.I.Berezhnoi i dr. Pod red. I.I.Kitaigorodskogo i S.I.Sil'vestrovicha. Moskva, Gosstroiizdat. Vol.2. 1963. 815 p. (MIRA 16:12)

(Glass manufacture)

GUR'EVICE. L. S.

Bie-Teletskaia problema. _ Biya-Teletskoe problem _ . (Sots. khoz-vo Zapadnoi Sibiri, 1932, no. 6, p. 23-25).

Contents, The problem of waterway transport in Biya-Teletskoe region, Altay, in connection with the creation of an aluminum combine. DLC: HC481.AiS6

Bie-Teletsko-Neninskaia problema. / Biya-Teletskoe-Nenin problem /. (Vodnyi transport, 1937, no. 3, p. 43-45).

DLC: HE561. R8

Ob-Eniseiskii kanal. 10b-Yenisei Canal /. (Za industrializatsiiu Sovetskogo vostoka, no. 2, Moskva, 1932).

DLC: H8.S4 Slav.

Sredniaia Ob' kak tranzitnyi put'. Central Ob as a transit way . (Za industrializatsiiu Sovetskogo Vostoka, no. 1. Moskva, 1932).

DLC: H8.S4 Slav.

Znachenie Bii_i Katuni v dele krepleniia ekonomicheskikh sviazei s Oirotiei i Mongoliei. __The importance of Biya and Katun in strengthening economic ties with Oyratia and Mongolia_. (Zhizn'Sibiri, 1930, no. 9-10, p. 92-99). Ispol'zovanie rek Katuni i Bii dlia sudokhodstva. DLC: HC483.25

SO: Soviet Transportation, and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

DESTRUCTION OF STREET AND STREET 191.1 AKOL'ZIN, P.A.; GURVICH, S.M.; KOTLYAR, R.V.; KOT, A.A.; MAMET, A.P.; MIKHAYLENKO, P.S.; PROKHOROV, F.G.; SOKOLOV, I.M.; CHERNOVA, L.A.; SHKROB, M.S.; YANKOVSKIY, K.A.; GURRVICH, L.S.; POLYAKOV, V.V. and the state of t To the editors of "Energetik." Energetik 5 no.3:11-12 Mr 157. (MIRA 10:3) 1. Vsesoyusnyy teplotekhnicheskiy institut im. Dzerzhinskogo (for Akol'zin, Kot, Yankovskiy) 2. TSentral'nyy kotoloturbinnyy institut (for Gurvich, Mamet,) 3. Teplo-elektro-prockt (for Gurevich).4.Ministerstva elektrostantsiy (for Kotlyar, Prokhorov). 5. Teplovaya elektricheskaya tsentral'naya stantsiya No.9 (for Mikhaylenko, Polyakov) 6. Perevyazochnyy etapnyy punkt (for Sekolov). 7. Moskovskoye rayonnoye upravlenime energokhozyayatva (for Cherneva). 8. Energoticheskiy institut Akademii nauk SSSR (for Shkrob). (Boilers)

96-1-14/31

Gurevich, L.S., Engineer, Prokhorev, F.G., Candidate of AUTHORS:

of Technical Sciences.

Increasing the Economic Effect of Thermal De-aeration TITIE:

of Feedwater for Steam Boilers (Povysheniye ekonomichnosti termicheskoy deaeratsii pitatel'noy vody parovykh

kotlov)

Teploenergetika, 1958, Vol.5, No.1, pp. 52-55 (USSR).

ABSTRACT: Commonly-used schemes of thermal de-aeration of feedwater PERIODICAL: are described and illustrated in Fig. la, b and B.

methods incur considerable thermal losses.

Calculated thermal losses with various methods of thermal de-aeration applied to a turbine type BK-100-2 at different temperatures are given in Table 1. At 40 C, the best thermal efficiency results from single-stage de-aeration at 6 atm. with unde-aerated chemically purified water delivered to the main condensate line before the first low pressure regenerative heater. However, this arrangement is unacceptable because of possible corrosion on the condensate line before

Table 2 shows approximately the marked economy achievable per the de-aerator. cubic metre of chemically purified water when it is delivered cardl/3 to the turbine condensers (Fig. 1), as compared with the more

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96-1-14/31

Increasing the Economic Effect of Thermal De-aeration of Feedwater for Steam Boilers.

frequently used thermal de-aeration circuit shown in Fig. B. The economy is even greater if this method replaces the other methods of de-aeration. The advantages and disadvantages of the method are discussed and its importance stressed, because by the end of 1960 the Ministry of Electric Power Stations (Ministerstvo elektrostantsiy) will have in operation watertreating plant with a total hourly output of 4 000 m2. Because of the increase in thermal efficiency that is possible, the following steps are recommended: in condensing power stations where make-up water is chemically de-salted, it should be delivered to the turbine condenser: in designing stations of this type, provision should be made to deliver chemicallydesalted water to the turbine condenser at a temperature of 10 - 20 °C. At two or three medium-pressure heat and electric power stations using large quantities of H-Na cationised water, it is necessary to verify the de-aerating ability of turbine condensers when the purified make-up is delivered to them at a temperature of 10 - 20 °C. The same applies to two or three high-pressure heat and electric power stations using large quantities of chemically-desalted water. The possibility of Card2/3